

Buck  $V_{out} = V_{in} \cdot \text{duty cycle}$

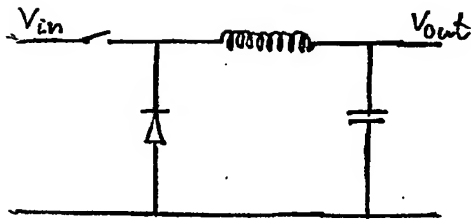


Fig 1a

Boost  $V_{out} = V_{in} \frac{1}{\text{duty cycle}}$

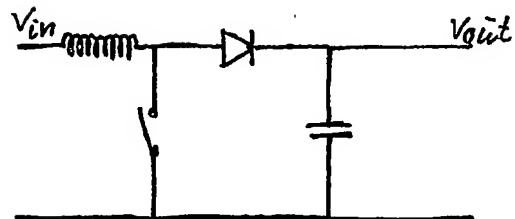


Fig 1b

Fly Back  $V_{out} = -V_{in} \frac{1}{\text{duty cycle}}$

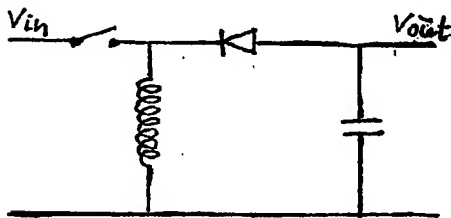


Fig. 1c

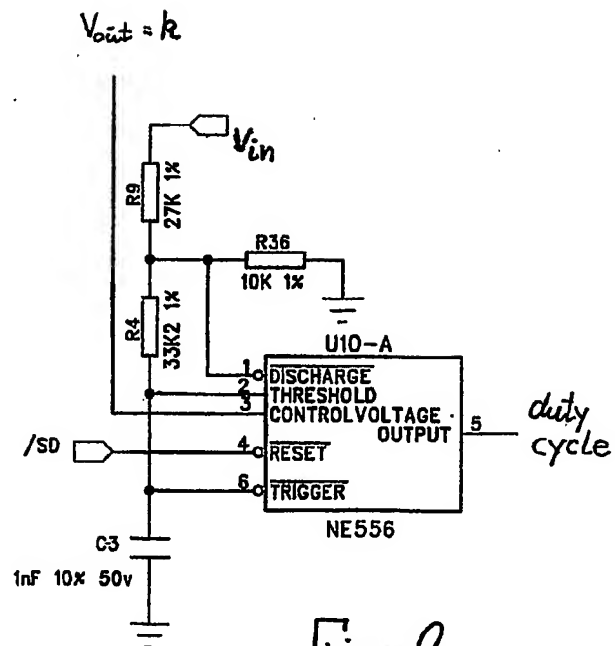


Fig. 2

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Fig. 3

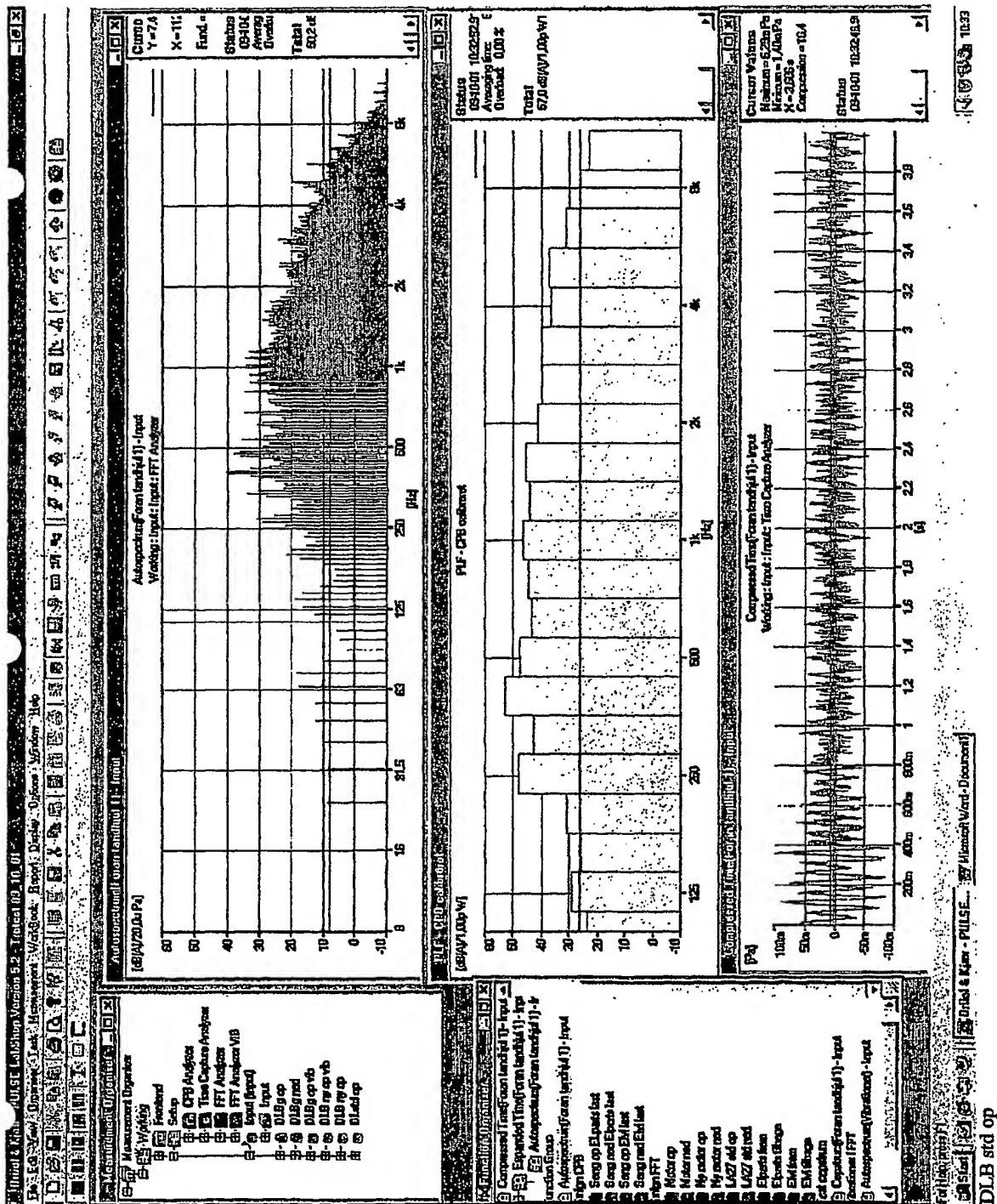


Fig. 4

